

Appendix table 6-12

**Reasons for attending work-related training in the past year, by broad occupation, sex, race/ethnicity, and disability status: 1999**

(Percent of those attending)

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Reason for attending training and occupation	Total	Sex		Race/ethnicity <sup>a</sup>					Disability status	
		Male	Female	White	Asian/Pacific Islander	Black	Hispanic	American Indian/Alaskan Native	Without disabilities	With disabilities
Facilitate change in occupational field										
All occupations.....	13.8	13.5	14.4	12.5	19.5	20.8	21.8	19.8	13.8	14.8
S&E occupations.....	13.5	13.4	13.8	11.8	20.5	20.5	21.9	15.8	13.3	15.4
Scientists.....	14.6	15.0	13.7	12.9	21.7	21.7	23.4	19.6	14.3	19.5
Computer/math scientists.....	17.2	17.5	16.4	15.3	23.4	22.9	26.5	47.1	17.1	18.5
Life/related scientists.....	11.6	10.7	13.1	10.3	16.5	19.5	26.2	8.3	11.0	22.8
Physical/related scientists.....	12.5	11.7	14.6	11.2	22.6	13.3	18.4	S	11.7	24.3
Social/related scientists.....	10.5	11.6	9.7	9.6	8.5	22.2	16.9	S	10.1	16.6
Engineers.....	11.8	11.5	14.1	10.2	19.0	18.1	19.8	6.7	11.9	9.2
Non-S&E occupations.....	14.0	13.6	14.5	12.8	18.4	20.8	21.7	21.6	13.9	14.6
Gain further skills/knowledge in occupational field										
All occupations.....	93.2	92.7	94.1	93.2	93.4	93.8	93.7	92.6	93.3	92.0
S&E occupations.....	93.1	92.8	93.8	92.9	94.1	93.8	93.4	88.2	93.1	92.2
Scientists.....	93.6	93.2	94.3	93.3	95.6	94.3	94.5	89.1	93.6	93.0
Computer/math scientists.....	94.8	94.4	95.7	94.3	97.0	95.0	95.8	94.1	94.7	96.3
Life/related scientists.....	91.1	90.8	91.8	90.8	93.5	95.1	90.8	83.3	91.4	86.0
Physical/related scientists.....	90.1	90.5	88.7	90.2	90.6	83.3	95.9	83.3	90.0	90.7
Social/related scientists.....	94.5	93.7	95.1	94.5	93.0	96.8	94.1	100.0	94.8	90.3
Engineers.....	92.3	92.4	91.2	92.4	92.0	92.9	91.8	90.0	92.4	91.1
Non-S&E occupations.....	93.3	92.7	94.2	93.3	92.7	93.8	93.8	93.4	93.4	92.0
Licensure/certification										
All occupations.....	31.0	30.3	32.4	31.5	24.1	31.1	31.6	39.7	31.1	29.9
S&E occupations.....	20.5	19.4	24.0	20.6	17.2	25.1	22.0	34.2	20.6	20.2
Scientists.....	22.1	20.8	24.6	22.4	17.8	22.5	26.8	34.8	22.2	21.1
Computer/math scientists.....	16.0	17.4	12.4	14.9	18.5	19.2	25.4	41.2	16.1	13.9
Life/related scientists.....	23.6	24.6	21.9	24.9	16.0	4.9	21.5	25.0	24.2	14.0
Physical/related scientists.....	15.7	15.0	18.1	15.9	11.3	18.3	18.4	50.0	15.9	13.1
Social/related scientists.....	43.7	40.8	45.9	44.9	26.8	40.5	35.6	40.0	43.1	54.5
Engineers.....	18.2	17.9	20.9	18.0	16.5	30.9	15.5	33.3	18.1	18.9
Non-S&E occupations.....	35.8	36.6	34.7	36.4	30.8	32.6	35.5	41.9	36.0	33.5
All occupations.....	37.4	38.1	36.1	36.0	43.4	45.4	42.5	46.3	37.6	33.8
S&E occupations.....	42.7	43.2	41.0	40.8	49.7	55.8	51.3	50.0	43.0	37.3

See explanatory information and SOURCE at end of table.

Appendix table 6-12

**Reasons for attending work-related training in the past year, by broad occupation, sex, race/ethnicity, and disability status: 1999**

(Percent of those attending)

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Reason for attending training and occupation	Total	Sex		Race/ethnicity <sup>a</sup>					Disability status	
		Male	Female	White	Asian/Pacific Islander	Black	Hispanic	American Indian/Alaskan Native	Without disabilities	With disabilities
Scientists.....	42.6	44.0	39.9	40.5	50.4	55.1	51.0	52.2	42.8	38.5
Computer/math scientists.....	51.0	51.7	49.3	48.9	56.6	63.3	58.1	70.6	51.2	48.3
Life/related scientists.....	35.0	32.9	38.9	33.8	38.0	48.8	49.2	50.0	35.6	25.4
Physical/related scientists.....	36.8	35.8	40.1	36.4	34.0	45.0	42.9	50.0	36.7	37.4
Social/related scientists.....	27.1	28.2	26.3	25.8	29.6	35.7	39.8	30.0	27.5	20.0
Engineers.....	42.8	42.4	46.7	41.1	48.7	57.4	51.7	50.0	43.3	35.7
Non-S&E occupations.....	34.9	35.1	34.7	33.9	37.2	42.8	38.9	43.7	35.1	32.5
Learn skills or knowledge needed for recently acquired position										
All occupations.....	29.7	28.3	32.3	28.3	38.9	33.8	37.4	37.6	29.8	28.2
S&E occupations.....	31.6	30.9	33.8	29.7	42.5	36.9	37.6	36.8	31.6	31.2
Scientists.....	32.0	31.8	32.4	30.0	43.7	36.1	37.8	39.1	32.0	32.1
Computer/math scientists.....	37.5	36.8	39.4	35.8	45.7	39.7	41.2	52.9	37.7	34.9
Life/related scientists.....	26.0	24.1	29.4	24.2	40.5	24.4	27.7	33.3	25.7	29.8
Physical/related scientists.....	26.7	25.4	30.5	25.3	38.4	28.3	28.6	33.3	26.1	35.5
Social/related scientists.....	23.8	23.5	24.0	22.1	36.6	31.7	39.0	30.0	23.8	23.4
Engineers.....	31.0	29.9	40.6	29.1	40.6	38.7	37.6	30.0	31.1	29.8
Non-S&E occupations.....	28.9	26.8	31.8	27.7	35.5	33.0	37.2	37.7	29.0	27.1
Attendance required/expected by employer										
All occupations.....	50.3	49.3	52.1	49.6	47.2	60.0	53.9	60.3	50.2	51.6
S&E occupations.....	49.5	50.5	46.6	49.4	47.2	56.9	52.2	50.0	49.6	48.8
Scientists.....	47.0	48.0	44.9	46.5	46.4	55.6	50.0	45.7	47.0	46.1
Computer/math scientists.....	48.7	49.1	47.9	48.3	47.9	56.6	51.5	41.2	48.8	48.0
Life/related scientists.....	46.9	47.4	46.0	47.3	43.0	39.0	47.7	66.7	47.4	37.7
Physical/related scientists.....	50.2	50.0	50.5	50.7	45.3	53.3	49.0	50.0	49.9	54.2
Social/related scientists.....	39.6	41.2	38.4	38.2	35.2	58.7	48.3	30.0	39.5	40.7
Engineers.....	53.4	53.2	55.2	53.8	48.4	59.9	55.4	56.7	53.4	53.0
Non-S&E occupations.....	50.6	48.5	53.7	49.7	47.3	60.8	54.6	64.7	50.5	52.6

S data with weighted values less than 50 or fewer than 5 respondents are suppressed for reasons of respondent confidentiality and/or data reliability

<sup>a</sup>Total includes "other" race/ethnicity not shown separately.

**NOTES:** "Scientists and engineers" include all people holding a bachelor's degree or higher in an S&E field plus people holding a non-S&E bachelor's degree or higher who were employed in an S&E occupation in 1993. Figures are rounded to the nearest hundred. Details may not add to totals because of rounding.

**SOURCE:** National Science Foundation, Division of Science Resources Statistics, Scientists and Engineers Statistical Data System (SESTAT).

Women, Minorities, and Persons With Disabilities in Science and Engineering: 2002